



COURSE OVERVIEW RE0669 Condition and Remaining Lifetime Assessment

Course Title

Condition and Remaining Lifetime Assessment

Course Date/Venue

Session 1: June 23-27, 2025/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Session 2: December 07-11, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

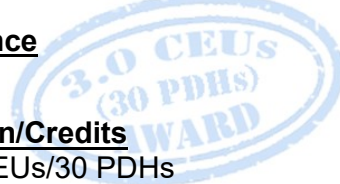


Course Reference

RE0669

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs



Course Description

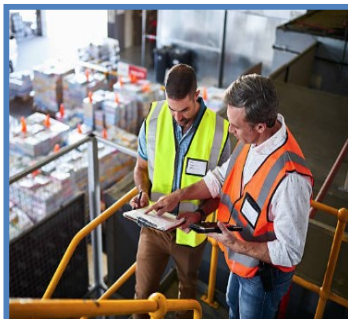


This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.

This course is designed to provide participants with a detailed and up-to-date overview of assets conditions and ageing. It covers the asset management, asset life-cycle management, asset condition and asset life-cycle definition and application; the condition assessment, process, methodologies, techniques and tools; preparing condition assessments and reporting; the condition management, maintenance and asset conditioning; and the data analysis supporting asset condition and health management



During this interactive course, participants will learn to manage risk by using various approaches like the HAZOP and risk-based inspection; managing reliability through people by applying total productive maintenance (TPM), people-centric maintenance and quality improvement; optimizing methodologies and performing project asset management, quantum leaps in process improvement and supplier partnering programme (SPP); the failure process, age versus reliability patterns and root cause failure analysis (RCFA); optimizing human and asset performance by focusing on behaviour and results; optimizing maintenance and replacement decision; the reliability centered maintenance (RCM); optimizing condition based on maintenance decisions; and getting the most out of the equipment before repair time.



Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain an in-depth knowledge on asset conditions and ageing
- Discuss asset management, asset life-cycle management, asset condition and asset life-cycle definition and application
- Carryout condition assessment process, methodologies, techniques and tools as well as prepare condition assessments and reporting
- Employ condition management, maintenance and asset conditioning including data analysis supporting asset condition and health management
- Manage risk and use various approaches including HAZOP and risk-based inspection
- Manage reliability through people by applying total productive maintenance (TPM), people-centric maintenance and quality improvement
- Optimize methodologies and perform project asset management, quantum leaps in process improvement and supplier partnering programme (SPP)
- Define failure and discuss the failure process, age versus reliability patterns and root cause failure analysis (RCFA)
- Optimize human and asset performance by focusing on behaviour and results as well as optimize maintenance and replacement decisions
- Apply reliability centered maintenance (RCM) and optimize condition based on maintenance decisions and get the most out of the equipment before repair time

Exclusive Smart Training Kit - H-STK®



*Participants of this course will receive the exclusive “Howard Smart Training Kit” (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of assets conditions and ageing for asset owners, asset management and maintenance practitioners, machine specialists and machine book custodians, classified plant responsible persons, engineering and reliability professionals to effectively make decisions about their assets.

Course Fee

US\$ 5,500 per Delegate + **VAT**. This rate includes H-STK® (Howard Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

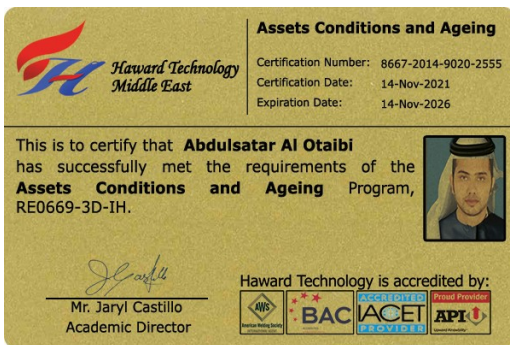
Course Certificate(s)

(1) Internationally recognized Competency Certificates and Plastic Wallet Cards will be issued to participants who completed a minimum of 80% of the total tuition hours and successfully passed the exam at the end of the course. Certificates are valid for 5 years.

Recertification is FOC for a Lifetime.

Sample of Certificates

The following are samples of the certificates that will be awarded to course participants:-



- (2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.

* Haward Technology * CEUs * Haward Technology * CEUs * Haward Technology * CEUs * Haward Technology *



Haward Technology Middle East
Continuing Professional Development (HTME-CPD)

CEUs

CEU Official Transcript of Records

TOR Issuance Date: 14-Nov-21

HTME No. 8667-2014-9020-2555

Participant Name: Abdulsatar Al Otaibi

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
RE0669-3D-IH	Assets Conditions and Ageing	12 Nov-14 Nov, 2021	19.5	1.95

Total No. of CEU's Earned as of TOR Issuance Date 1.95

TRUE COPY



Jaryl Castillo
Academic Director

Haward Technology has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2013 Standard which is widely recognized as the standard of good practice internationally. As a result of their Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1-2013 Standard.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking Continuing Education Units (CEUs) in accordance with the rules & regulations of the International Association for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology is accredited by



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Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.


Certificate Accreditations

Certificates are accredited by the following international accreditation organizations:

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British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

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The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.



Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Mr. Dimitry Rovas, CEng, MSc, PMI-PMP, is a **Senior Maintenance Engineer** with extensive industrial experience in **Oil, Gas, Power and Utilities** industries. His expertise includes **Machinery Lubrication, Process Plant Shutdown & Turnaround, Maintenance Optimization & Best Practices, Maintenance Auditing & Benchmarking, Reliability Management, Rotating Equipment Maintenance & Troubleshooting, Integrity & Asset Management, Maintenance Management Best Practices, Material Cataloguing, Maintenance Planning & Scheduling, Effective Reliability Maintenance, Pump Technology, Pump Selection & Installation, Maintenance Contracting & Outsourcing, Centrifugal Pumps & Troubleshooting, Reciprocating & Centrifugal Compressors, Compressor Control & Protection, Gas & Steam Turbines, Turbine Operations, Gas Turbine Technology, Valves, Bearings & Lubrication, Advanced Machinery Dynamics, Rubber Compounding, Elastomers, Thermoplastic, Industrial Rubber Products, Rubber Manufacturing Systems, Heat Transfer, Vulcanization Methods, Energy Conservation, Energy Loss Management** in Electricity Distribution Systems, **Energy Saving, Thermal Power Plant Management, Thermal Power Plant Operation & Maintenance, Heat Transfer, Machine Design, Fluid Mechanics, Heating & Cooling Systems, Heat Insulation Systems, Heat Exchanger & Cooling Towers, Mechanical Erection, Heavy Rotating Equipment, Material Unloading & Storage, Commissioning & Start-Up.** Further, he is also well-versed in MS project & AutoCAD, EPC Power Plant, Power Generation, Combined Cycle Powerplant, Leadership & Mentoring, Project Management, Strategic Planning/Analysis, Construction Management, Team Formation, Relationship Building, Communication, Reporting and Six Sigma. He is currently the **Project Manager** wherein he is managing, directing and controlling all activities and functions associated with the domestic heating/cooling facilities projects.

During his life career, Mr. Rovas has gained his practical and field experience through his various significant positions and dedication as the **EPC Project Manager, Maintenance Manager, Field Engineer, Preventive Maintenance Engineer, Researcher, Instructor/Trainer, Telecom Consultant** and **Consultant** from various companies such as the Podaras Engineering Studies, Metka and Diadikasia, S.A., **Hellenic Petroleum Oil Refinery** and COSMOTE.

Mr. Rovas is a **Chartered Engineer** of the **Technical Chamber of Greece**. Further, he has **Master** degrees in **Mechanical Engineering** and **Energy Production & Management** from the **National Technical University of Athens**. Moreover, he is a **Certified Instructor/Trainer, a Certified Project Management Professional (PMP), a Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)** and a **Certified Six Sigma Black Belt**. He is an active member of Project Management Institute (**PMI**), Technical Chamber of Greece and Body of Certified Energy Auditors and has further delivered numerous trainings, seminars, courses, workshops and conferences internationally.



Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1

0730 - 0745	<i>Registration & Coffee</i>
0800 - 0815	<i>Welcome & Introduction</i>
0815 - 0830	PRE-TEST
0830 - 0900	<i>Introduction to Asset Management & Asset Life-Cycle Management</i>
0900 - 0930	<i>Asset Management & Business Performance</i>
0930 - 0945	<i>Break</i>
0945 - 1015	<i>150 5500X Framework for Managing Assets</i>
1015 - 1045	<i>Asset Management Plans as Mechanism to Support Asset Life-Cycle Management</i>
1045 - 1100	<i>Risk Bow-Tie Exercise</i>
1100 - 1130	<i>Risk Based Approach to Asset Management</i>
1130 - 1200	<i>Asset Condition & Asset Life-Cycle Definition & Application</i>
1200 - 1230	<i>Life Cycle Phases & Definition of Asset Life</i>
1230 - 1245	<i>Break</i>
1245 - 1315	<i>Asset Ageing vs. Condition of Components</i>
1315 - 1345	<i>Factors Impacting on Asset Life</i>
1345 - 1420	<i>Failure Behaviour & Asset Life</i>
1420 - 1430	<i>Recap</i>
1430	<i>Lunch & End of Day Two</i>

Day 2

0730 - 0815	<i>Critically Analysis Exercise</i>
0815 - 0900	<i>A Risk Based Approach to Focus on the Right Assets</i>
0900 - 0930	<i>Condition Assessment</i>
0930 - 0945	<i>Break</i>
0945 - 1015	<i>Defining Condition & Performance Levels</i>
1015 - 1100	<i>Condition Assessment Process, Methodologies, Techniques & Tools</i>
1100 - 1130	<i>Competencies of Assessors</i>
1130 - 1200	<i>Preparing for, & Conducting Condition Assessments</i>
1200 - 1230	<i>Condition Assessment Exercises & Demonstration</i>



1230 - 1245	Break
1245 - 1315	Condition Assessment Reporting
1315 - 1345	Condition Management
1345 - 1420	Maintenance & Asset Condition
1420 - 1430	Recap
1430	Lunch & End of Day Two

Day 3

0730 - 0815	Data Analysis Supporting Asset Condition & Health Management
0815 - 0900	Determine Assessment Intervals & Methods
0900 - 0930	Effective Reporting on Asset Health & Condition
0930 - 0945	Break
0945 - 1015	Data Management Supporting Effective Condition Management
1015 - 1100	Managing Risk
1100 - 1130	Risk & its Management - A Discussion of the Various Approaches Used, Including HAZOP & Risk-Based Inspection
1130 - 1200	Managing Reliability through People
1200 - 1230	Total Productive Maintenance (TPM) - People-Centric Maintenance & Quality Improvement
1230 - 1245	Break
1245 - 1315	Optimizing Methodologies
1315 - 1345	Asset Management of Projects
1345 - 1420	Quantum Leaps in Process Improvement - The Ten Essential Requirements for DESIGN and RAM (Reliability, Availability & Maintainability)
1420 - 1430	Recap
1430	Lunch & End of Day Three

Day 4

0730 - 0815	Supplier Partnering Programme (SPP)
0815 - 0900	Definition of Failure
0900 - 0930	The Failure Process
0930 - 0945	Break
0945 - 1015	Age versus Reliability Patterns
1015 - 1100	Root Cause Failure Analysis (RCFA): Optimizing RCM Results
1100 - 1130	Optimizing Life Cycle Decisions
1130 - 1200	Optimizing Human & Asset Performance by Focusing on Behaviour & Results
1200 - 1230	Taking Stock of your Organization: Balanced Score Cards, Benchmarking & Key Performance Indicators
1230 - 1245	Break
1245 - 1315	Optimizing Maintenance & Replacement Decisions
1315 - 1345	Network System Reliability
1345 - 1420	Maintenance Tasks
1420 - 1430	Recap
1430	Lunch & End of Day Four





Day 5

0730 - 0800	<i>Reliability Centered Maintenance (RCM)</i>
0800 - 0830	<i>RCM - The Analytical Decision Logic</i>
0830 - 0900	<i>Is RCM the Right Tool for you?</i>
0900 - 0930	<i>What can RCM Achieve?</i>
0930 - 0945	<i>Break</i>
0945 - 1030	<i>What does it take to Implement RCM?</i>
1030 - 1100	<i>Reasons for the Failure of RCM</i>
1100 - 1130	<i>Capability Driven RCM</i>
1130 - 1200	<i>Optimizing Condition Based Maintenance Decisions</i>
1200 - 1230	<i>Optimizing Time Based Maintenance</i>
1230 - 1245	<i>Break</i>
1245 - 1300	<i>Getting the Most Out of your Equipment Before Repair Time</i>
1300 - 1315	<i>Course Conclusion</i>
1315 - 1415	COMPETENCY EXAM
1415 - 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch & End of Course</i>

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

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